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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/766,736 01/22/2001		1/22/2001	Edward J. Bortolini	Bortolini	Bortolini 1298	
24283	7590	05/20/2005		EXAM	EXAMINER	
PATTON E	BOGGS		RAMAN, USHA			
1660 LINCO						
SUITE 2050				ART UNIT	PAPER NUMBER	
DENVER, CO 80264				2616		

2616

DATE MAILED: 05/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/766,736	BORTOLINI ET AL.					
Office Action Summary	Examiner	Art Unit					
·	Usha Raman	2616					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed s will be considered timety. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 02 No	ovember 2004.						
	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.						
Application Papers							
9) ☐ The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ acce	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the o		, ,					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex		• •					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)		·					
Notice of References Cited (PTO-892)	4) 🔲 Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite atent Application (PTO-152)					

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DETAILED OFFICE ACTION

Response to Arguments

1. Applicant's arguments filed November 2nd 2004 have been fully considered but they are not persuasive. Applicant argues that the prior art system used in the rejection "requires the use of a single cable modem termination which incorporates both segments: downstream and upstream functions in a single device" and therefore overcomes independent claims 1 and 6. The examiner however respectfully disagrees. The structure of the hierarchical split broadband cable termination system comprising separate and independently operable upstream and downstream functions is not reflected in the recited claims. As a result, the examiner maintains rejection.

Claim Rejections - 35 USC § 102

- The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 A person shall be entitled to a patent unless –
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant's prior art system.

In regards to claims 1 and 6, applicant's admitted prior art system (in figures 1 and 2) discloses a broadband cable modern termination system for managing data transmission through a broadband network that interconnects a plurality of end user locations and a head end (111, 113) via a cable modern

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(CMTS 105, 106 located in hubs 121-125. See applicant's disclosure, page 4, lines 19-20) that has an upstream component for multipoint end user to single point head end upstream signaling (CMTS 106 in hub 124 receives upstream data from users coupled to passive nodes 147, 148, 149, therefore comprises multipoint end user to single point headend signaling means) and a downstream component for single point head end to multipoint end user downstream signaling (CMTS in hub 125 transmits downstream data signaling from master headend 112 to plurality of passive fiber nodes 147, 148, 149, and therefore comprises signal point headend to multipoint end user signaling means), the broadband network comprising a hierarchical network having at least two levels, the system further comprising

Downstream broadband cable modem component (CMTS in hub 125) means located at a "first" level of said hierarchical network for transmitting data in a downstream direction from a source of program material at said head end (113) to selected ones of plurality of end user locations.

Upstream broadband cable modem component means (CMTS in hub 124) located at a "second" level of hierarchical network for transmitting control data received from at least one of said plurality of end user locations in an upstream direction to said head-end (through upstream DOCSIS channels), wherein second level is located downstream of said first level in said hierarchical network (hub 124 is located downstream of hub 125).

In regards to claims 2, and 7, data in digital baseband IP format is transmitted downstream from the CMTS to the end user locations are transmitted over existing RF channels. Therefore, the data received at the CMTS in digital baseband IP format is inherently converted in a RF based format for transmission over RF channels to a plurality of end user locations. Note figure 1, and descriptions in page 4, lines 15-19 and page 5, lines 5-10 of the disclosure.

In regards to claims 3, 5, 8 and 10, the RF channels are located downstream of the CMTS, therefore upstream data received upstream at the CMTS from the end user locations are received in radio frequency based format and converted in digital baseband IP format for transmission to head end as indicated in figure 1.

In regards to claims 4, and 9, hubs 124 and 125 each comprise a CMTS and therefore the downstream broadband cable modem component (hub 125) and the upstream broadband cable component (hub 124) operate independent of each other.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire

THREE MONTHS from the mailing date of this action. In the event a first reply is

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filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usha Raman whose telephone number is (571) 272-7380. The examiner can normally be reached on Mon-Fri: 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James J. Groody Supervisory Patent Examiner Art Unit 262 2676